

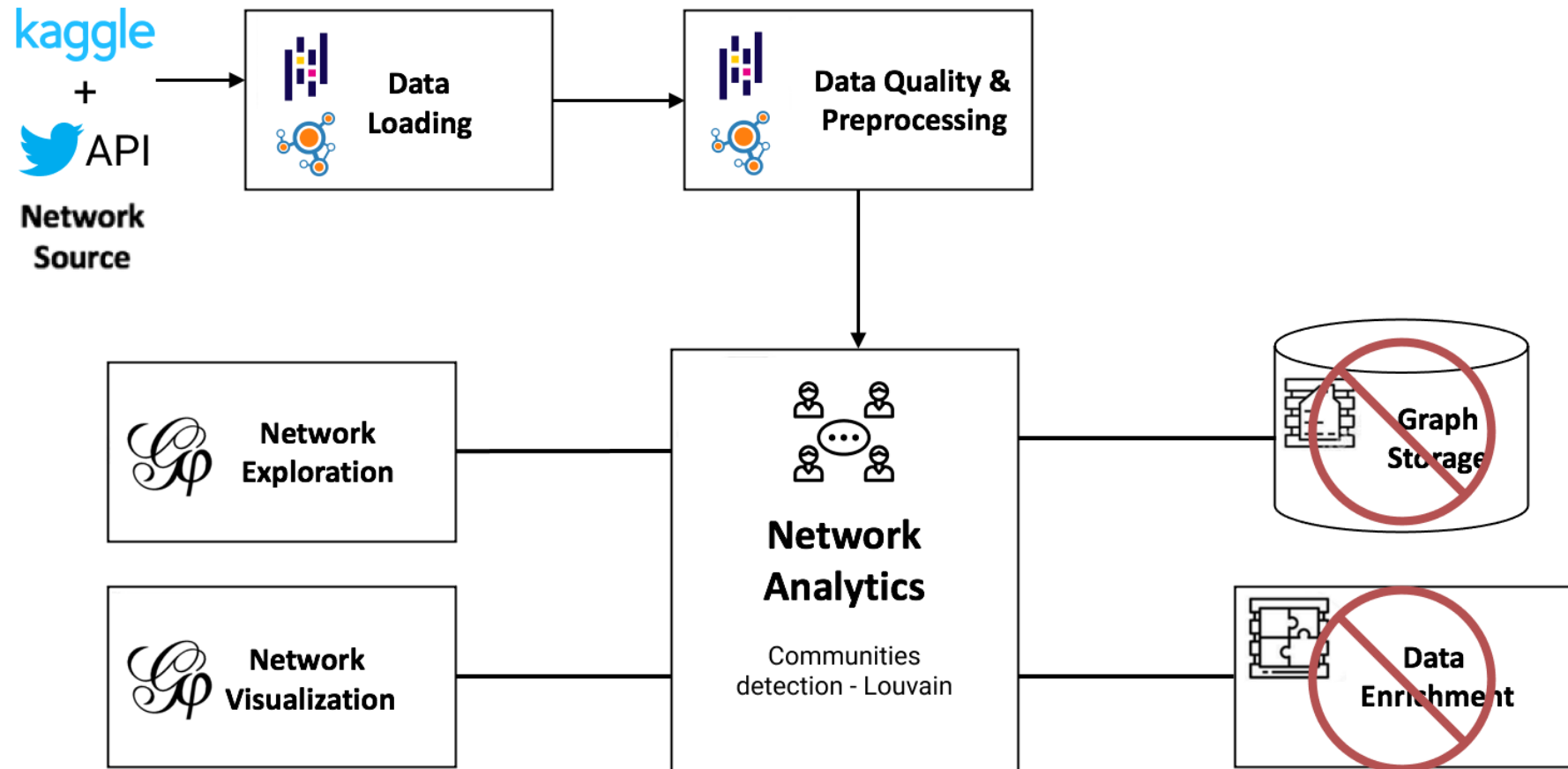
Social Media Analytics

Project Presentation

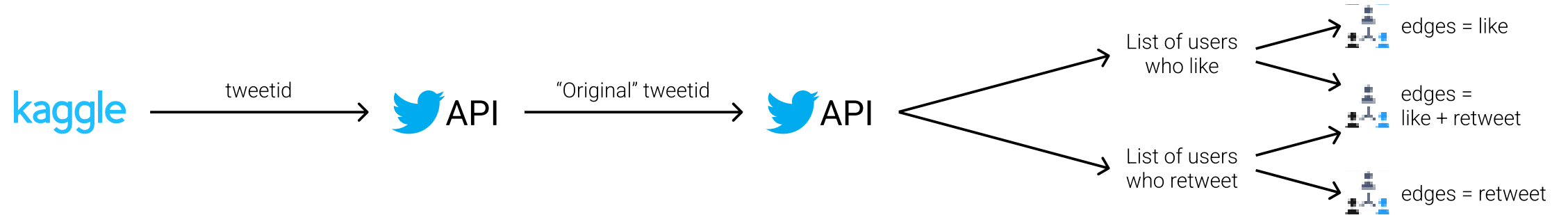


Banti Filippo
Broillet Christophe
Luu Quoc Bao

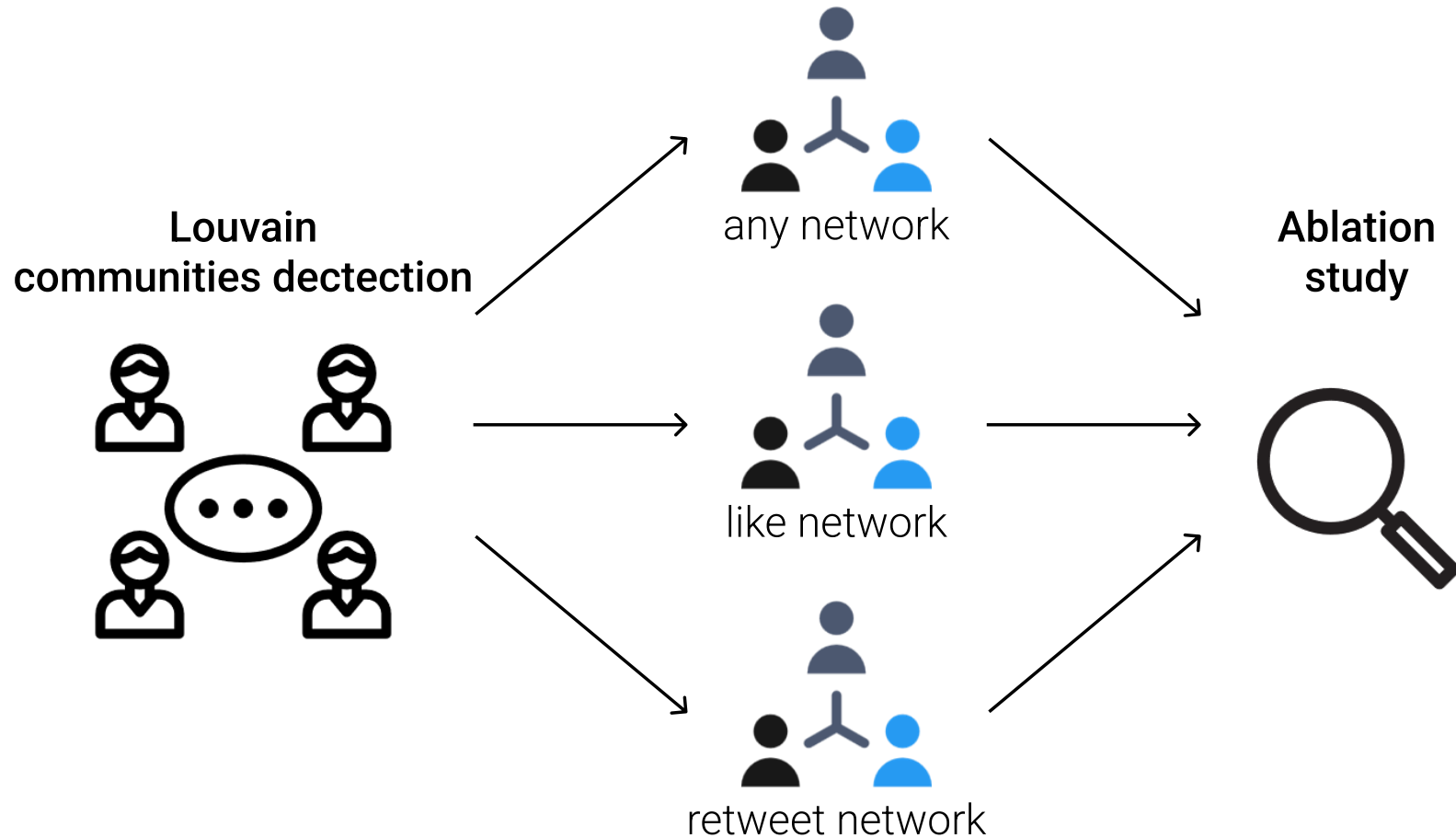
Overview of the project architecture



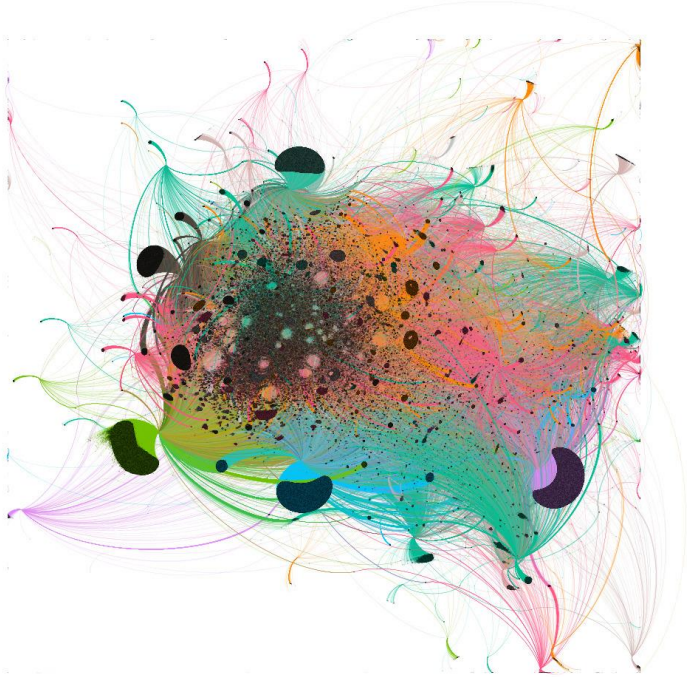
Data Loading & Preprocessing



Network Analytics - overview



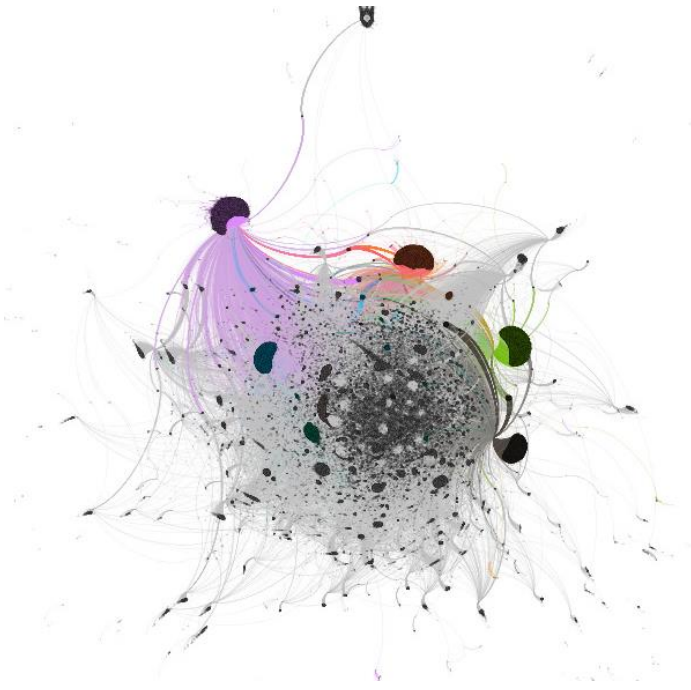
Network Visualization



Any network



Like network

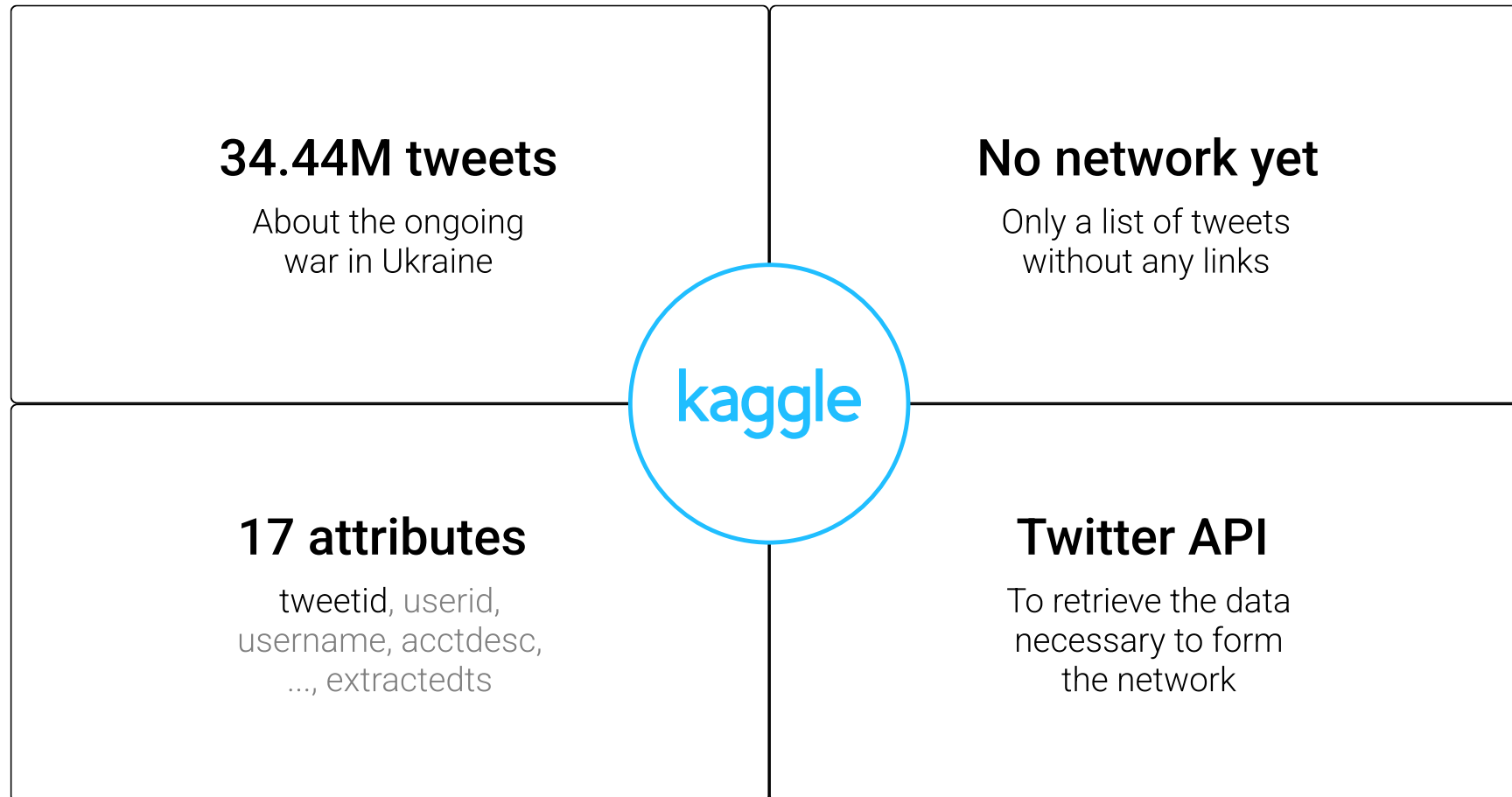


Retweet network

Thank you for your attention



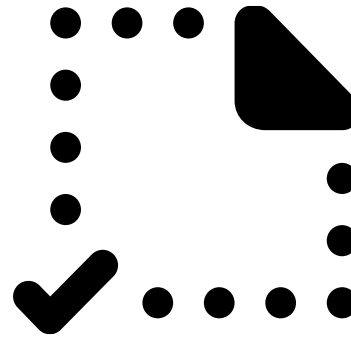
Network Source



Data Quality



Deleted tweets and users



Missing data

Network Exploration

	Likes only	Retweets only	Both likes and retweets
Number of nodes	2669418	520842	2790891
Number of edges	4245301	787529	4466776
Average degree	1.59	1.51	1.60
Average clustering coefficient	0.405	0.048	0.405

Table 6: Some statistics for the three graphs

Network Exploration

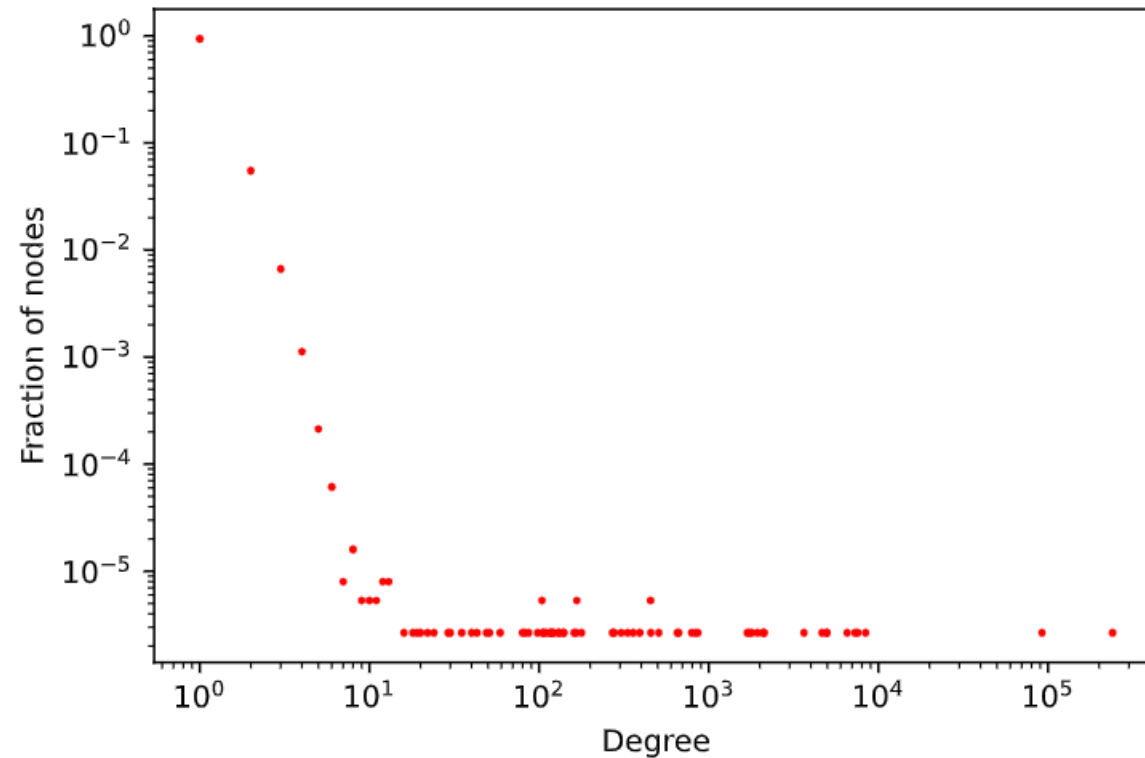


Figure 2: Degree distribution for the network containing both likes and retweets.

Network Analytics - results

Passage	Likes only	Retweets only	Both likes and retweets
1	742	660	770
2	130	166	122

Table 3: Number of detected communities from Louvain, for the three different networks

Network Analytics -Comparison

	Likes	Retweets	Any
Likes	-	7.69%	27.77%
Retweets		-	8.69%
Any			-

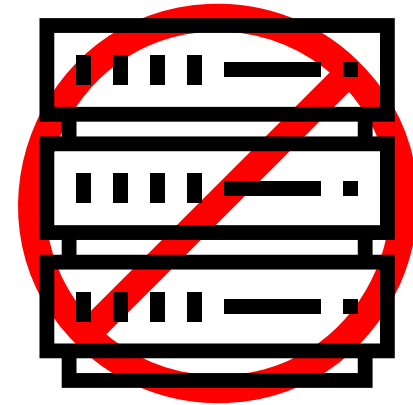
Table 4: Intersection over union for authors in the biggest community

	Likes	Retweets	Any
Likes	-	0.00%	5.55%
Retweets		-	0.00%
Any			-

Table 5: Intersection over union for authors in the second biggest community

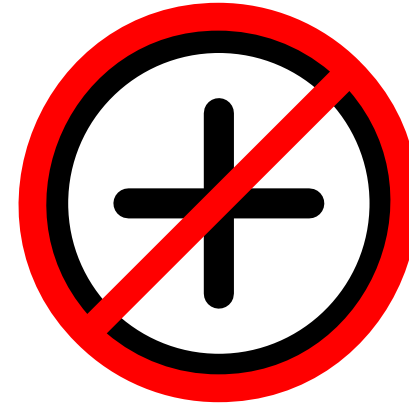
Graph storage

- No added value
- CSV format was sufficient and easier to work with
- CSV format make the transfer from NetworkX/Pandas to Gephi easy



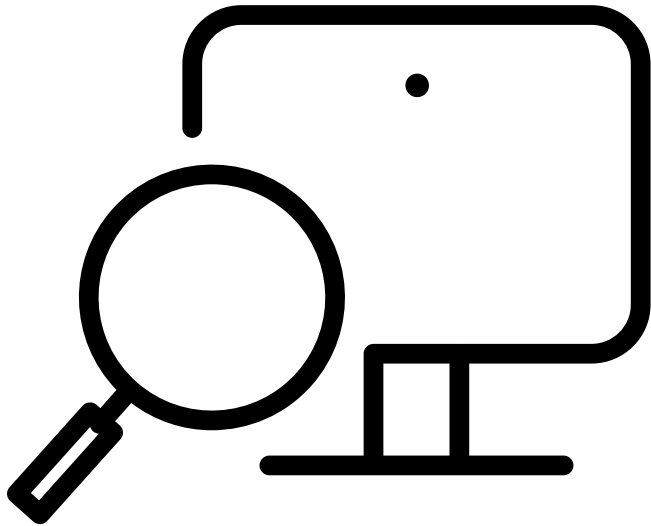
Data Enrichment

- Enough data (too much) at the source already
- Limited by the tweeter API
- No real added value



Conclusion

Results



Outlook & future work

